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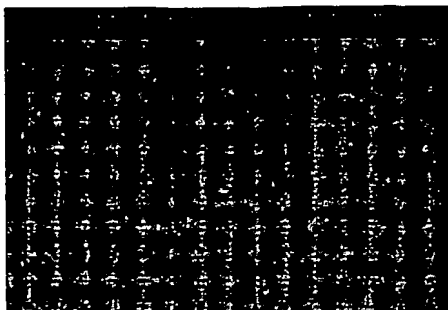
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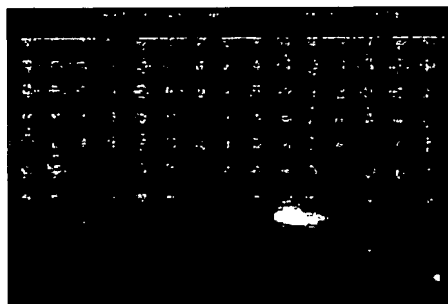
[Continued on next page]

(54) Title: WEAR RESISTANT POLYMERS

(a) × 1.0K



(b) × 6.0K



SEM micrograph of the surface of polyurethane containing 6.1wt% alumina prepared via the solvent method.

(57) Abstract: A method of improving the wear resistance of a polymer is disclosed comprising the steps of evenly dispersing an ultrafine inorganic particulate material in the polymer at a loading rate of 0.01 to 20wt% of the total weight of the particulate polymer composite. The mixing or dispersing is preferably carried out under sub-atmospheric pressure conditions to ensure little or no bubbles form in the mixture prior to curing.



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